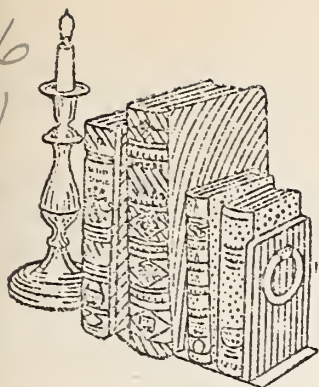


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LIBRARY NEWSLETTER

U. S. DEPARTMENT OF AGRICULTURE

ALBUQUERQUE BRANCH

Box 1348

Albuquerque, N. M.

220 East Central

July 1950

WHAT YOUR USDA BRANCH LIBRARY OFFERS

Are you familiar with the library services available to you from the Albuquerque Branch? Probably not if you are a new employee so check the list of services summarized below and write, phone or visit the library if you wish additional information.

1. Loan of Books. Requests for specific books, or for material on specified subjects, will be filled in the order in which received. Use Form AD-245 (Library Request Form), get these from your Bureau Supply Center, or send us an informal note or memorandum.
2. Loan of Periodicals. Regular circulation lists are maintained for many periodicals in agricultural fields. If you are not on any of these lists, send for the Library's list of periodicals currently received. Single issues will also be loaned upon request.
3. Reference Service. Questions arising in your work, involving the use of publications will be answered when possible. If facilities in the Branch are not adequate, we will consult other libraries or forward the request to the Main Library in Washington.
4. Bibliographical Service. Short lists of references on subjects connected with your work will be compiled upon request. For more comprehensive bibliographies we will consult the Washington USDA Library.
- ✓ 5. Photoprint Service. One photoprint copy of any article not exceeding 50 pages in length which is available to the USDA Library in Washington will be supplied free to U.S.D.A. employees upon request. Send your requests for photoprints to the Albuquerque Branch on Form AD-245.
6. Bibliography of Agriculture. Issued monthly by the Main Library, this Bibliography lists all new agricultural publications received by the USDA Library in Washington. Each issue contains an author index and lists of new Department of Agriculture publications, experiment station publications, and extension service publications. Copies are circulated regularly from the Albuquerque Branch. If you wish to see this Bibliography currently ask to have your name added to the routing list.

NEW BOOKS

ANNUAL REVIEW OF PLANT PHYSIOLOGY, D. I. Arnon, editor, Leonard Machlis, associate editor. Vol. 1 Stanford, Calif., Annual Reviews, Inc. 1950.

Partial contents.- Mineral Nutrition of Plants.- Influence of light on plant growth.- Plant Tropisms.- Growth Regulating Substances in Horticulture.- Herbicides.- Physiology of Cell Wall Growth.- Respiration of Higher Plants.- The Nitrogenous Constituents of Plants with Special Reference to Chromatographic Methods.- Water Relations of Plant Cells and Tissues.- Soil Moisture in Relation to Plant Growth.- Soil Chemistry in relation to Inorganic Nutrition of Plants.

FARM WOOD CROPS, By John F. Preston. 302 p. McGraw-Hill 1949 99.61 P92

A technical guide to the development of farm forestry. The farm economic angles of forestry are presented and the forestry techniques needed in the initial stages of woods management are discussed. The author, formerly Chief, Forestry Division of the Soil Conservation Service, tells why the farmer should grow wood as a farm crop, and how to take the first steps in farm woodland management. He relates forestry to farming and shows that the farm woodland presents farm problems which must be solved before farm forestry can become a permanent part of agriculture.

OUT OF THE EARTH, By Louis Bromfield. 305 p. Harper 31.3 B780

Here are Louis Bromfield's answers to the questions on farming asked by thousands of farmers and visitors to famous Malabar Farm. In direct, non-technical language he tells how acres of worn-out soil were transformed into rich, productive farmland. He describes the improved farming methods that have worked successfully and economically on his own farm and explains the relationship of soil to the health and resistance of plants, animals and people.

OUTLINE OF THE PRINCIPLES OF WILDLIFE MANAGEMENT, By W. W. Chase and E. B. Beard. 59 p. Overbeck 1950 412.9 C38

OUTLINE OF THE MANAGEMENT OF FUR ANIMALS, By W. W. Chase and E. B. Beard. 46 p. Overbeck 1948 412.62 C38

The study units in these teaching aids follow a pattern of "Outline, Questions, and References" and conservationists will find them of value in checking their knowledge of wildlife management and in adding to their information in this field.

The senior author, formerly a regional biologist with the Soil Conservation Service and now Professor of Wildlife Management at the University of Michigan, has emphasized the land and water aspects of wildlife management.

PLANT ECOLOGY, By W. B. McDougall. 4th edition. 234 p. Lea & Febiger 1949 463.8 M142

Though fundamental thinking on ecology has not changed to any great extent since the publication of the third edition of this book it was necessary to make some changes in every chapter of this new edition in order to bring the facts up to date and in line with our present knowledge of the subject. Much new reference material has also been added. The order of presentation found acceptable in earlier editions has been retained. The text is concise and readable and covers ecology of roots, stems, and leaves, symbiosis, plant communities and plant succession.

- POPULAR MECHANICS GARDEN BOOK. 96 p. Popular Mechanics Co. 1949 90.1 P81
Information on how to make outdoor furniture, fences, trellises, fireplaces, pools, ornaments, bird houses as well as short articles on landscaping, lawns, flower and vegetable gardening.
- WATER IN THE PHYSIOLOGY OF PLANTS, By A. S. Crafts, H. B. Currier and C. R. Stocking
240 p. Chronica Botanica Co. 1949 463.32 084
This book endeavors to bring together in readable form both the historical and the modern ideas about water and its role in the physiological processes of plants. The authors first discuss water as a chemical compound and review the various theories that have been advanced to account for its many unusual properties in terms of atomic and molecular linkages. This discussion is followed by a similar treatment of aqueous solutions. Other chapters define terminology common in physiological literature and direct attention to the osmotic systems of living cells and tissues, the movements of water between living cells, the absorption of water by root systems, its transportation through the conductive elements, and its loss in transpiration.

WESTERN RANGE LIVESTOCK INDUSTRY, By Marion Clawson. 401 p. McGraw-Hill 1949
40 057

This book will be of special interest to USDA employees in this region. The author, director of the Bureau of Land Management, analyzes the range livestock industry from an economic viewpoint. He points out the importance of the range industry to the nation, describes the climate, plant cover and physical environment upon which it is dependent, and discusses ownership and public range-land administration. The economic problems of ranch organization and operation, credit, and the factors affecting demand for and supply of range livestock products are stressed throughout the text.

NEW BULLETINS

AGRICULTURAL ENGINEERING

- MEASURING WATER IN IRRIGATION CHANNELS WITH PARSHALL FLUMES AND SMALL WEIRS.
USDA Circ. 843 1950 1 Ag840
- MECHANICAL DRYING OF CORN ON THE FARM. USDA Circ. 839 1950 1 Ag84C
- A MILK HOUSE TO SAVE MILK, TO SAVE LABOR, TO IMPROVE QUALITY, TO INCREASE PROFITS.
Wisc. Ext. Serv. Spec. Circ. 14. 1949 275.29 W75Sc
- 17 MILK HOUSE PLANS. Wisc. Ext. Serv. Stencil Circ. 306 1949 275.29 W75St
- STORING AND DRYING GRAIN IN CANADA, IN THE UNITED STATES, IN THE UNITED KINGDOM.
Food and Agriculture Organ. FAO Agr. Studies 6 1949 28 F73

CROPS

- BROMEGRASS STRAINS IN INDIANA. Ind. Agr. Exp. Sta. Circ. 348 1948 100 In2Pc
- CROP ROTATION AND TILLAGE EXPERIMENTS AT THE NORTH PLATTE (NEBR.) SUBSTATION
1907-34. USDA Tech. Bul. 1007 1950 1 Ag84Te
- NUTRIENT DEFICIENCIES IN UTAH ORCHARDS. Utah Agr. Exp. Sta. Bul. 338 1950
100 Ut1b
- POINTERS ON MAKING GOOD LAWNS. USDA Leaflet 281 1950 1 Ag84L
- SWEET CLOVER. Okla Ext. Serv. Circ. 515 275.29 Ok410C
- YIELD AND NITROGEN CONTENT OF LEGUMES. Texas Agr. Exp. Sta. Prog. Rpt. 1204.
1949 100 T31Pr

ENTOMOLOGY

COLORADO POTATO BEETLE. Utah Ext. Bul. 207. 275.29 Utlb
CONTROL OF COTTON INSECTS WITH DUSTS AND SPRAYS. Ala. Agr. Exp. Sta. Prog.Rept.41
1950 100 ALLProg
A DIGEST OF INFORMATION ON TOXAPHENE. U.S. Bur. of Ent. & Plant Quar.E-802. 1950
FLY CONTROL ON DAIRY CATTLE AND IN DAIRY BARNs. USDA Leaflet 283. 1950 1 Ag84L
GRASSHOPPER CONTROL WITH CHEMICAL SPRAYS AND DUSTS. Okla. Agr. Exp. Sta. Bul.B-35
1950 100 Ok4b
HORN FLIES ENEMIES OF CATTLE. USDA Leaflet 270. 1950 1 Ag84L
HOW TO CONTROL EXTERNAL PARASITES OF LIVESTOCK - FLIES, LICE, GRUBS, FLEAS, TICKS,
MANGE, SCAB. Ky Agr. Ext. Circ. 477. 1950 275.29 K41c

LIVESTOCK

BOVINE MASTITIS I. A Study of the Relative Incidence of Various Micro-organisms
Associated with Mastitis in Pennsylvania Dairy Herds. Pa. Agr. Exp. Sta. Bul
525. 1950 100 P38b
BRAHMAN-HEREFORD CROSSES FOR SLAUGHTER CALF PRODUCTION. Texas Agr. Exp. Sta. Prog
Rept. 1206. 1949 100 T31Pr
CITRUS MOLASSES IN RATIONS FOR FATTENING BEEF CALVES. Texas Agr. Exp. Sta. Prog.
Rept. 1213. 1950 100 T31Pr
CROSSED TYPES OF BEEF CATTLE FOR THE GULF COAST REGION. USDA Circ.844. 1950
FEEDING DAIRY COWS. Ky. Agr. Ext. Circ. 474. 1949 275.29 K41c
SORGHUM GLUTEN FEED COMPARED WITH GROUND MILO IN RATIONS FOR FATTENING STEER CALVES
Texas Agr. Exp. Sta. Prog. Rept. 1212. 1950 100 T31Pr
STERILITY AND LOWERED FERTILITY IN CATTLE. Ind. Agr. Exp. Sta. Bul. 545. 1949

RANGE AND PASTURE

ALFALFA-BROMEGRASS MAKES GOOD PASTURE. Ind. Agr. Exp. Sta. Circ.290. Rev.1949
DAIRY PASTURE RENOVATION EXPERIMENTS AT THE AGRICULTURAL RESEARCH CENTER. USDA
BDIM-Inf-97. 1950 1.973 D4B34
THE IMPORTANCE OF PASTURE AND ROUGHAGE IN THE DAIRY PROGRAM. USDA BDIM-Inf-93.
1950 1.973 D4B34
PROGRESS REPORT, 1945-1949, SOUTHEAST OKLAHOMA PASTURE-FERTILITY RESEARCH STATION.
Okla. Agr. Exp. Sta. Bul. B-348. 1950 100 Ok4b
TESTS WITH SULFUR DICKIDE FOR FORAGE PRESERVATION. USDA BDIM-Inf-106. 1950
1.973 D4B34
YEAR-ROUND USE OF LAND FOR GRAZING GRADE STEERS IN THE TENNESSEE VALLEY. Ala. Agr
Exp. Sta. Prog. Rept. 43. 1950 100 ALLProg
YIELD AND ADAPTABILITY OF SOME COOL SEASON GRASSES AT THE BRAZOS RIVER FIELD
LABORATORY, 1948-49. Texas Agr. Exp. Sta. Prog. Rpt. 1205. 1949. 100 T31Pr

WEED CONTROL

APPARATUS FOR SPRAYING SMALL PLOTS. Texas Agr. Exp. Sta. Prog. Rpt. 30. 1950
APPLICATION OF CHEMICALS FOR WEED CONTROL WHILE CULTIVATING. Pa. Agr. Exp. Sta.
Prog. Rpt. 34. 1950 100 P38p
CONTROL OF AQUATIC DITCHBANK WEEDS. Calif. Ext. Circ. 158. 1949 275.29 C12C
CONTROLLING WEEDS IN CORN WITH 2, 4-D. Ill. Ext. Serv. Circ. 652. 1950 275.29 I
RECENT DEVELOPMENTS IN THE CHEMICAL CONTROL OF BRUSH ON TEXAS RANGES. Texas Agr.
Exp. Sta. Bul. 721 1950 100 T31sb
RESUME OF 1949 PROGRESS MADE IN RESEARCH ON ERADICATION OF WOODY PLANTS. North
Central States Weed Control Conference. WFC

Mrs. Marion M. Dorroh,
Librarian, Albuquerque Branch

Mrs. Virginia O. Gangwer
Assistant in Charge of Circulation

